

## ERRATA

### Advanced Mathematics 1 for AS and A Level

First edition - 2017 initial print

The following erratum was made on 19/Oct/2017

page 576 **CHAPTER 23 EXAMPLE 8**, table heading in solution should read:

- a** The test statistic is the number of ones that appear in 6 rolls of the die,  $X$ .  
 $\therefore X \sim B(6, 0.25)$

$x$	$p$ -value
0	1
1	$\approx 0.822$
2	$\approx 0.466$
3	$\approx 0.169$
4	$\approx 0.0376$
5	$\approx 0.00464$
6	$\approx 2.44 \times 10^{-4}$

The following erratum was made on 25/Jul/2017

page 185 **REVIEW SET 7A**, should read:

- 13** The temperature of a mug of water  $t$  minutes after it has been poured from a kettle is given by  
 $T = 60e^{-0.1t} + 20$  °C.  
 Show that it will take  $10 \ln 3$  minutes for the temperature of the water to fall to 40°C.

The following erratum was made on 13/Jun/2017

page 295 **CHAPTER 12 EXAMPLE 6** solution, diagram should not have axis labels to avoid confusion:

#### Example 6

Self Tutor

Solve  $2 \sin 3x = 1$  on the interval  $0^\circ \leq x \leq 180^\circ$ .

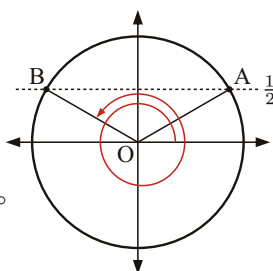
$$2 \sin 3x = 1$$

$$\therefore \sin 3x = \frac{1}{2}$$

Since  $0^\circ \leq x \leq 180^\circ$   
 $0^\circ \leq 3x \leq 540^\circ$

$$\therefore 3x = 30^\circ, 150^\circ, 390^\circ, \text{ or } 510^\circ$$

$$\therefore x = 10^\circ, 50^\circ, 130^\circ, \text{ or } 170^\circ$$



Start at angle  $0^\circ$  and work around to  $540^\circ$ , noting down the angle every time you reach points A and B.

